SMIRNOV, A.P.

11(0)

PHASE I BOOK EXPLOITATION

sov/1723

Bronzov, Anatoliy Samsonovich, and Aleksandr Petrovich Smirnov

Bureniye naklonnykh skvazhin (Directional Drilling) Moscow, Gostoptekhizdat, 1958. 169 p. 2,000 copies printed.

Executive Ed.: Ye. A. Shakhmayeva; Tech. Ed: I.G. Fedotova

PURPOSE: This book is intended for oil and gaswell drillers

COVERAGE: The author discusses the development of directional drilling in the Soviet Union and abroad and describes the latest technology and techniques employed in this type of drilling. He also gives detailed information on the drilling tools and instruments and on the application of turbine and rotary methods. The book is intended to acquaint Soviet drillers with the latest developments in directional drilling which will be greatly extended in the near future. The bibliography contains 62 references, of which 24 are Soviet, 36 English, 1 German, and 1 French.

TABLE OF CONTENTS:

Preface

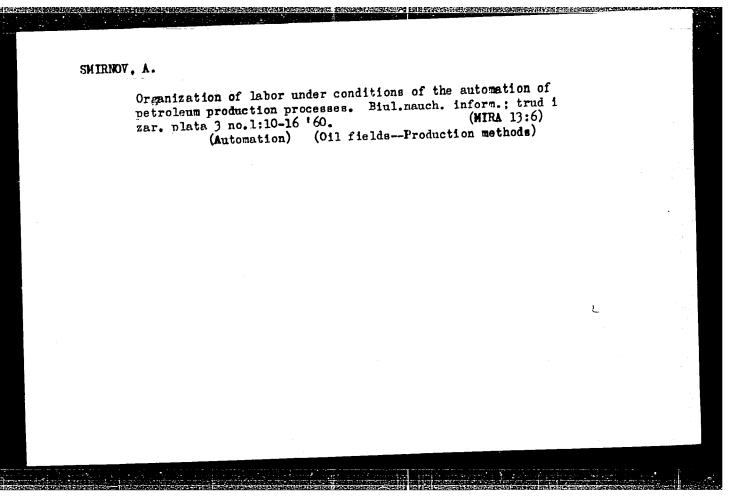
3

KURASHEV, V.; SEREBRYAKOV, N.; SMIRNOV, A.

Influence of automatic processes in petroleum production on the organization of labor. Sots.trud 4 no.8:48-53 (MIRA 13:1)

Ag 159. (Oil fields--Production methods)

(Automation)

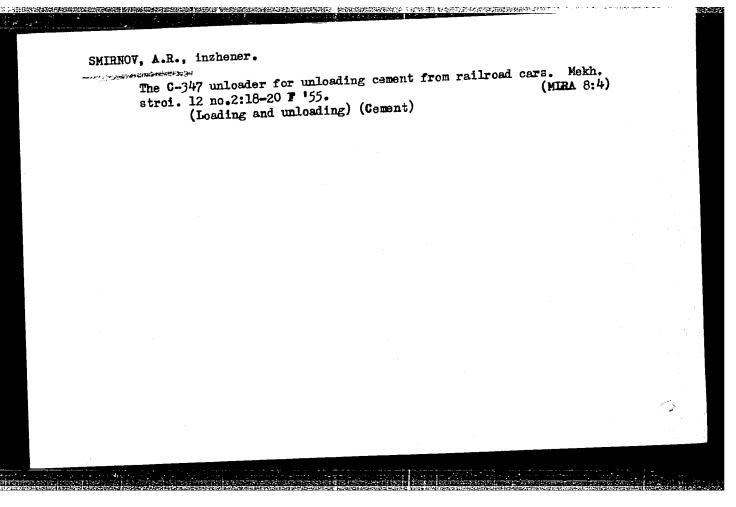


AST 30 高405年的學者的自由的自身人的政策会员。4.2

SHATSOV, Nakhman Isaakovich; SMIRNOV, Aleksandr Petrovich; ASAN-NURI, A.A., red.; PETROVA, Ye.A., vedushchiy red.; GANINA, L.V., tekhn.red.

[Deep-drilling practices in foreign countries] Tekhnologiia bureniia glubokikh skvazhin za rubezhom. Moskva, Gos.nauchnotekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 268 p. (MIRA 13:11)

(United States -- Boring)



SMIRNOV, A.S., inzh.

Technically based norms of labor and machinery expenditure for the maintenance and repair of milled peat fields. Torf. prom. 39

1. Shaturskiy torfotrest.
(Peat industry—Production standards)

no.6:1-3 '62.

MOGILEVSKIY, Dmitriy Aleksandrovich, dots.; BABKOV, Valeriy
Fedorovich, prof., doktor tekhn. nauk; SMIRNOV, Andrey
Sergeyevich, dots., kand. tekhn.nauk; ABRAMOV, Leonid
Tikhonovich, kand. tekhn. nauk; ZAYTSEV, Filipp
Yakovlevich, kand. tekhn. nauk; ZAMAKHAYEV, Mitrofan
Semenovich, prof., kand. tekhn. nauk; NIKITIN, Sergey
Mikhaylovich, inzh.; DEBERDEYEV, B.S., red.;
GALAKTIONOVA, Ye.N., tekhn. red.

[Survey and design of airports] Izyskaniia i proektirovanie aerodromov. [By] A.Mogilevskii i dr. Izd.2. Moskva, Avtotransizdat, 1963. 703 p. (MIRA 16:11) (Airports--Design and construction)

SMIRNOV, A.S., kand.tekhn.nauk, dotsent

Analogy of the mechanics of continua and discrete media. Trudy
MIIGAIK no.49:41-49 '62. (MIRA 16:6)

1. Kafedra vysshey matematiki Moskovskogo instituta inzhenerov
geodezii, aerofotos yemki i kartografii.
(Continuity)

S/0051/64/016/001/0143/0147

ACCESSION NR: AP4011497

AUTHOR: Smirnov, A.S.; My\*sev, I.P.

TITLE: Approximate expression for the coefficient of light scattering by dielectric non-absorbing spheres

SOURCE: Optika i spektroskopiya, v.16, no.1, 1964, 143-147

TOPIC TAGS: light scattering coefficient, light scattering, scatterin by spheres, dielectric particle, dielectric sphere

ABSTRACT: An approximate expression is derived for the coefficient K of scattering by non-absorbing spherical dielectric particles. K is defined as the ratio of the scattered light flux to the incident flux on the geometric cross section of the particle. The derivation is based on the similarity of the curves characterizing the variation of K with the parameter  $\rho$  (the additional phase difference acquired by the ray passing through the center of the particle as compared with the ray propagating in vacuum) for different values of the index of refraction m as reported in the literature. The final linear equation is of the form  $K_{\mathbf{m}}(\mathbf{p}) = 1 - A_{\mathbf{m}} + B_{\mathbf{m}} K_{\mathbf{l}}(\mathbf{p})$ 

Card1/2

CIA-RDP86-00513R001651510019-2" **APPROVED FOR RELEASE: 08/25/2000** 

ACC.NR: AP4011497

where K<sub>m</sub> and B<sub>m</sub> are coefficients the dependence of which on m in the range from 1 to 2 is given by formulas; and curves. The probable errors involved in using the formula are evaluated. In most cases the errors are not significant. Moreover, the deduced formula is easy to use, whereas precise formulas can be used in practice only with the aid of computers. Orig.art.has: 10 formulas, 7 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 11MarG3

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: PH

NR REF SOV: OCO

OTHER: 003

SMIRNOV, A S

PHASE I BOOK EXPLOITATION

sov/4727

- Mogilevskiy, Dmitriy Aleksandrovich, Valeriy Fedorovich Babkov, Andrey Sergeyevich Smirnov, Leonid Tikhonovich Abramov, Filipp Yakovlevich Zaytsev, Mitrofan Semenovich Zamakhayev, and Sergey Mikhaylovich Nikitin
- Izyskaniya i proyektirovaniye serodromov (Site Selection and Planning of Airfields)
  Moscow, Avtotransizdat, 1959. 566 p. Errata slip inserted. 1,300 copies printed.
- Ed.: (Title page): V.F. Babkov, Doctor of Technical Sciences, Professor; Ed. (Inside book): V.G. Chvanov; Tech. Ed.: N.V. Mal'kova.
- PURPOSE: This textbook is intended for students of schools of higher education specializing in airfield-construction engineering and students of tekhnikums and other schools studying airfield construction. It may also be used by staff members of organizations for airfield planning, construction, and operation.
- COVERAGE: The book deals with the principal requirements for airfield design and construction. The topics discussed include landing-strip dimensions, relief and drainage patterns, and the design and construction of surfaces and pavements. Airfield site selection is also included. The book purportedly reflects methods

Card-1/15

Site Selection and Planning of Airfields

SOV/4727

used in the USSR and other countries and developmental trends in airfield design and planning. Section 3 Chapter 2, Section 18 Chapter 5, Chapters 21 to 24 (excluding Section 93), and Chapters 26 to 30 were written by V.F. Babkov. Chapters 11 to 15 and Section 93, Chapter 22 were written by Candidate of Technical Sciences L.T. Abramov. The Introduction, Chapters 1 to 5 (excluding Sections 3, 18, and 21), Chapters 8 to 10, and Chapter 20 were written by Docent D.A. Mogilevskiy. Chapters 18, 19, and 25 2 were written by Candidate of Technical Sciences A.S. Smirnov; Chapters 16 and 17, by Candidate of Technical Sciences F. Ya. Zaytsev; Chapter 6, by F. Ya. Zaytsev and A.S. Smirnov; Chapter 31, by Candidate of Technical Sciences M.S. Zamakhayev; and Section 21, Chapter 5, and Chapter 7, by Engineer S.M. Nikitin. Reviewers are Professor A.K. Birulya; staff members of an airfield-planning organization under the direction of Candidate of Technical Sciences P.A. Dudkin and including V.N. Avdeyev, V.A. Kartashev, A.G. Pal'chev, A.N. Popov, and I.G. Ptitsin; and a team of instructors from the Khar'kovskiy avtomobil'no-dorozhnyy institut (Khar'kov Automobile and Highway Institute) under the direction of Professor I.A. Romanenko and including L.A. Barats, N.I. Baskevich, A. Ye. Bel'skiy, and Ya. A. Kaluzhskiy. There are no references.

Card-2/15

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AVAILABLE: Library of Congress Card 15/15	AC/pw/mas 2-24-61

AID P - 5460

: USSR/Aeronautics - meteorology Subject

Pub. 135 - 6/29 Card 1/1

: Smirnov, A. S., Eng-Major Author

: Radio-technical weather reconnaissance Title

Periodical: Vest. vozd. flota, 2, 29-32, F 1957

: The importance of radio-technical weather reconnaissance is stressed in this article. Further on the author describe Abstract

how the weather reconnissance prior to and during the flight

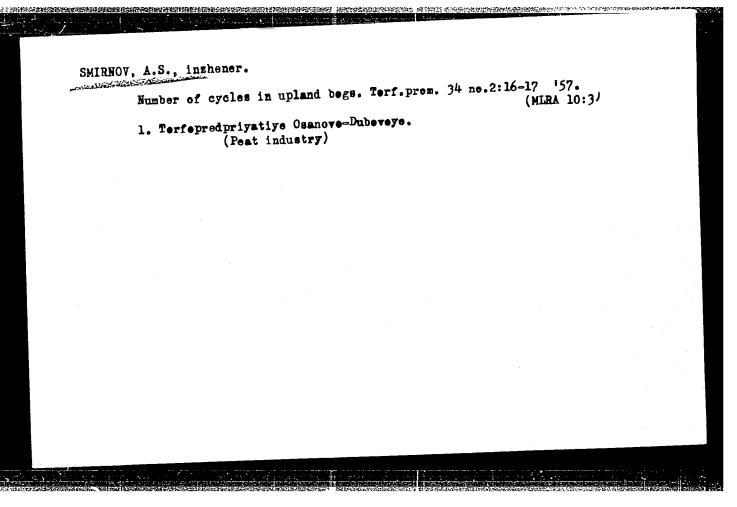
is carried out with the aid of radio-technical stations.

Two photos. The article is of informative value.

Institution: None

Submitted : No date

CIA-RDP86-00513R001651510019-2" APPROVED FOR RELEASE: 08/25/2000



SMIRNOV, Aleksandr Sergeyevich; POPOV, A.S., red.; MALEK, Z.N., tekhn.red.

[Effective collective labor agreements] Kollektivnyi dogovor V
[deistvii; iz opyta raboty fabrichnogo komiteta profeoiuza. [Moskva]
Izd-vo VTsSPS Profizdat, 1957. 76 p.

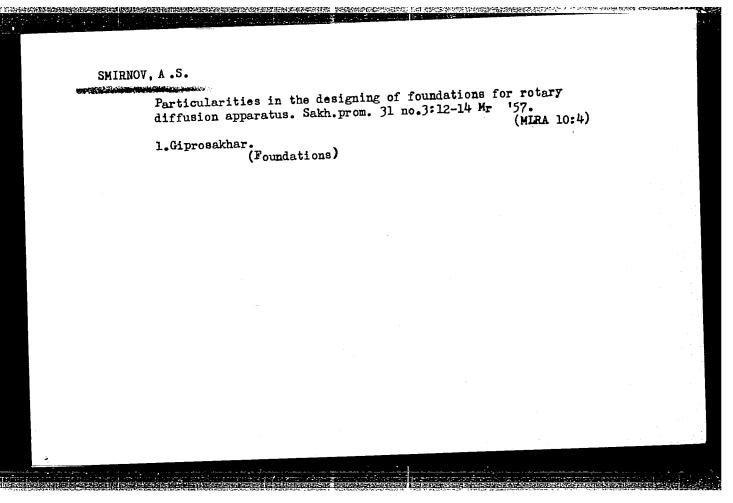
1. Predsedatel' fabrichnogo komiteta fabriki "Skorokhod" imeni
Ya.Kalinina. (for Smirnov)

(Gollective labor agreements--Shoe manufacture)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651510019-2"

ANDREYEV, Oleg Vladimirovich; BABKOV, Valeriy Fedorovich; GERBURT-GEYBOVICH, Andrey Vladimirovich; ZAMAKHAIEV, Mitrofan Semenovich; KRUTETSKIY, Yevgeniy Vladimirovich; ORNATSKIY, Nikolay Petrovich; SEDEL'NIKOV, Pavel Ivanovich; SMIRNOV, Andrey Sergeyevich; SHESTAKOV, P.N.[deceased] PLOTNIKOV, S.A., redaktor; KOGAN, F.L., tekhnicheskiy redaktor.

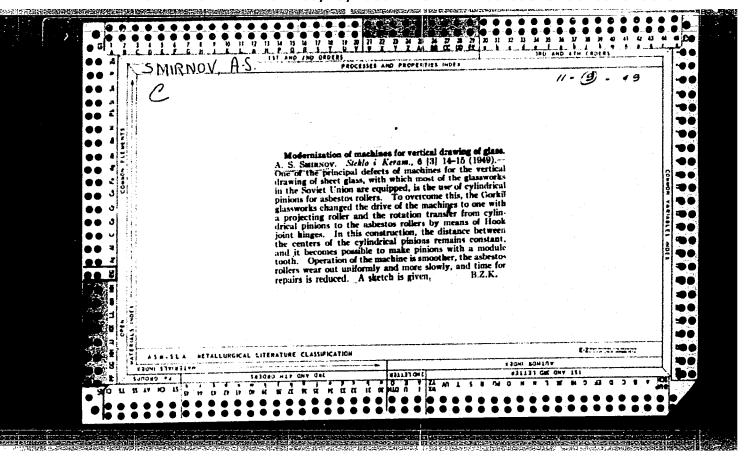
[Examples of highway design] Primery proektirovaniia avtomobil'nykh dorog. Izd.2-e, perer. Moskva, Nauchno-tekhn.izd-vo avtotransp. lit-ry, 1955.283 p. (MLRA 8:12) (Roads)



BALAKSHIN, O.B., kand. tekhn. nauk; BYKHOVSKIY, M.L., prof., doktor tekhn. nauk; VOLODIN, Ye.I., kand. tekhn. nauk; GRIGOR'YEV, I.A., kand. tekhn.nauk; DRAUDIN-KRYLENKO, A.T., inzh.; IVANOV, I.A., kand. tekhn.nauk; KOZIOV, M.P., kand. tekhn. nauk; KUTAY, KOROTKOV, V.P., prof.; KOCHENOV, M.I., kand. tekhn. nauk; PALEY, A.K., kand. tekhn. nauk; MARKOV N.N., kand. tekhn. nauk; PALEY, M.A., inzh.; RAYEMAN, N.S., kand. tekhn.nauk; ROSTOVYKH, A.Ya., kand. tekn. nauk; RUMYANTSEV, A.V., kand. tekhn.nauk; SARKIN, nauk; TAYTS, B.A., prof., doktor tekhn. nauk; YAKUSHEV, A.I., prof., doktor tekhn. nauk; NESTEROV, V.D., inzh., nauchnyy red.; CHUDOV, V.A., inzh., nauchnyy red.; GAVPILOV, A.N., doktor tekhn.nauk, prof., red.; BLAGOSKIONOVA, N.Yu., inzh., red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Manufacture of instruments and means of automatic control: a manual in five volumes] Priborostroenie i sredstva avtomatiki; spravochnik v piati tomakh. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry. Vol.l.[Interchangeability and engineering measurements] Vzaimozameniaemost' i tekhnicheskie izmerenia. 1963. 568 p.

(Electronic measurements) (Automatic control)



Glass Manufacture

Mechanization of transport of glass silicates. Stek. i ker. 9 No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

LOSEV, David Platonovich; POLISAR, Grigoriy Leyzerovich; FILIMONOV.
Yuriy Polikarpovich; AFOSHIN, A.N., kand. tekhn.nauk, retsonzent; SAVCHERKO, L.T., inzh., retsonzent; SAIRNOV, A.S., kand.
tekhn. nauk, nauchryy red.; LESKOVA, L.R., red.; KRYAKOVA, D.M.,
tekhn. red.

[Elements and networks of contactless remote control devices]
Elementy i uzly beskontaktnykh telemekhanicheskikh ustroistv.
Elementy i uzly beskontaktnykh telemekhanicheskikh ustroistv.
Leningrad, Sudpromgiz, 1962. 246 p. (MIRA 15:12)
(Remote control) (Pulse techniques (Electronics))

S/063/60/005/006/007/014 A051/A026

AUTHORS:

Smirnov, A.S., Candidate of Chemical Sciences

TITLE:

Water Decontamination From Radioactive Substances

PERIODICAL:

Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva im. D.I.

Mondeleyeva, 1960, No. 6, Vol. 5, pp. 651-657

A summary is given of the existing methods of water decontamina-TEXT: tion from radioactive substances, the disadvantages and favorable aspects of each one, and a description of the difficulties encountered in these techniques. Special mention is made of the causes for radioactive substance occurance in waters, both from natural phenomena, as well as synthetic means. It is suggested carrying out systematic checks of the radioactive content in different water systems. Some of the methods used at the present time for water deactivation discussed in the article are: 1) deactivation of natural water supplies, whereby it is pointed out that no all-consuming method actually exists as yet, and attempts to use the same chemical principles as those for non-radioactive water purification have proven unsuccessful due to the extremely low weight concentrations of the radioactive substances both in surface and subterranean waters. These concentrations are considerably less than the resolving power of the usually adopted purification methods. Card 1/7

Water Decontamination From Radioactive Substances S/G

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Mention is made of the assorted methods described in world literature such as: a) coagulation, using aluminum and iron sulfate coagulants, ferrous chloride, with additions of lime or other alkaline reagents, phosphates, activated silicon acid, various clays, polyelectrolytes, etc. b) Precipitation with reagents and coprecipitation, - these methods are used to eliminate colloidal and coarsely-dispersed radioactive admixtures and some of the dissolved parts. Lime, sodium carbonate and other reagents are used as the reagents. c) ionic exchange or ionation; the effectiveness of this method for eliminating radioisotopes is said to be very high. Other methods suggested in the literature are: precipitation of radioactive substances with powdery metals (iron, aluminum, copper) (Ref. 11), water treatment using manganese compounds, etc (Ref. 27), distillation methods or evaporation, freezing, etc. It is pointed out that all the suggested methods have the same disadvantage, namely, that after the deactivation of the water, great quantities of radioactive waste remains. The problem has not as yet been solved for safely eliminating the radioactive waste. The present article does not deal with this problem. 2) Coagulation: Experiments conducted in the USA in Oak Ridge are referred to, stating that the latter method has great practical possibilities. Al<sub>2</sub>  $(SO_4)_3$ , Fe<sub>2</sub> $(SO_4)_3$  and FeCl<sub>3</sub> were used in the tests (Ref. 11). It Card 2/7

Water Decontamination From Radioactive Substances

\$/063/60/005/006/007/014 A051/A026

is added here that the coagulation method is particularly suitable for elimination of radioactive substances, adsorbed by natural coarsely-dispersed admixtures, determining the turbidity of the water. Laboratory tests of the coagulation effectiveness of beta-activity removal, using Al<sub>2</sub> (SO<sub>4</sub>)<sub>3</sub>, Fe<sub>2</sub> (SO<sub>4</sub>)<sub>3</sub> and Na<sub>3</sub>PO<sub>4</sub>, separately and together, in doses of 15-180 mg/l, showed that the  $\beta$ -active suspensions were completely removed and the dissolved  $\beta$  active admixtures- partially. The Sr89, Sr90, Ba 140 are best removed at a pH of about 10. The effectiveness of the Fe<sub>2</sub> (SO<sub>4</sub>), and Al<sub>2</sub> (SO<sub>4</sub>), were found to be about the same. Reference is further made to the many attempts at removing radioisotopes from water, using clays (Ref. 11,13,14). With respect to this method it is pointed out, that, although, a rather high degree of removal is accomplished of certain of the radioisotopes, the shortcoming here is the need for large amounts of clay. This brings about (especially if the method is combined with the coagulation using chemicals) the formation of large amount of radioactive slag. 3) Filtration through sand: In Ref. 11 it was pointed out that ordinary filtration through quartsite filters is ineffective for removing radioactive materials, if not considering the mad film on the surface of the filters. A noticable degree of deactivation was obtained in removing the  $\rm Co^{60}$  and  $\rm Ce^{144}$  from water using industrial slow quartsite filters (Ref. 18). Other data are available on the effectiveness of the Card 3/7

Water Decontamination From Radioactive Substances S/063/60/005/006/007/014 A051/A026

removal of radioactive material using sand and other filtering materials (Ref. 19), It is stated that a number of research workers consider that the filtration on rapid quartsite filters in itself, is not an effective means of radioactivity removal from water (Ref. 12, 20, 21). The rapid filters are suggested only for the case of Y91 and Zr95-Nb95 removal, where 99% removal can be reached. The author adds, however, that if, prior to the filtration, the water is coagulated, a high degree of removal of several radicisotopes can be accomplished. 4) Lime-soda softening in coprecipitation: In regard to this method it is noted that the use of the said method, from the practical point of view for water decontamination, is of little value in large water supply stations, since they do not have the proper equipment. However, it is felt that the method would be practical in stations where lime-soda softening or coagulation is performed (Ref. 23). It is recommended coprecipitating Sr, using calcium carbonate, by manyfold additions of the calcium chloride and recirculating of the formed precipitate. Conclusions are formed here that the radio-strontium may be eliminated by forming mixed crystals of calcite-strontianite (without heating) or aragonite-strontianite (with heating). The single passing of water through the lime-soda softener reduces the concentration of the radiostrontium by 50%. The repeated precipitation of the CaCOz removes over 90% of Card 4/?

Water Decontamination From Radioactive Substances

S/063/60/005/006/007/014 A051/A026

large water mains, the ionating method is not recommended. It is considered to be of use in small stations or in portable set-ups and individual instruments for decontamination of low-salt water. It is pointed out that the symthesis of selective ionites would render the icnating method applicable for the decontamination of waters with a high salt content, and also at large water stations. In Reference 29 mention is made of the use of illuminating prefilters in the removal of Sr90\_Y90, Sr89, p32, Cs137 from river water, in portable equipment with a production output of 400 to 4000 1/h. In addition to the illuminating prefilters the equipment also consisted or successively connected H-cathionite (Lewatit s-100) and OH-anionite filters (Lewatit-MN). The radioisotopes were eliminated by 99.997%, whereby the prefilter removed 93-95% of the activity. Similar results were obtained by the same authors (Ref. 30) by using a pump having a motor, prefilter, illuminating filter, decontaminating filter, preliminary desalting filter and completely desalting filter. Vermicelite (?) is mentioned as a cheap material recommended as an ion-exchange material (Ref. 22). At a conference of the United Austrian Association of Specialists it was pointed out that complete removal of radioactivity cannot be accomplished in water-supply stations for technical and economical reasons, and it was suggested that, at least, partial removal be achieved, by coagula-Card 6/7

Water Decontamination From Radioactive Substances \$/063/60/005/006/007/014 A051/A026

tion and precipitation, using elevated dosages of reagents. It is finally suggested that a systematic control be carried out at the water stations, on the radioactivity of the water supply and other water sources. There are 13 tables, 31 references: 14 are English, 5 German, 7 Soviet, 4 Italian, 1 Czech.

Card 7/7

(Water) (Radioactive substances)	Pur 16	rification of wo	ater from J1-S '61.	radioac	tive sub	stances.	Analele chimie	
		(Water)	(Radios	ctive su	ibstances	;)		

S/169/63/000/002/029/127 D263/D307

AUTHORS:

Lapshin, V. I., Peremitin, B. V. and Smirnov, A. S.

TITLE:

Study of the possibility of rapid measurement of plutonium concentration in air with the aid of inertial

precipitator (impactor)

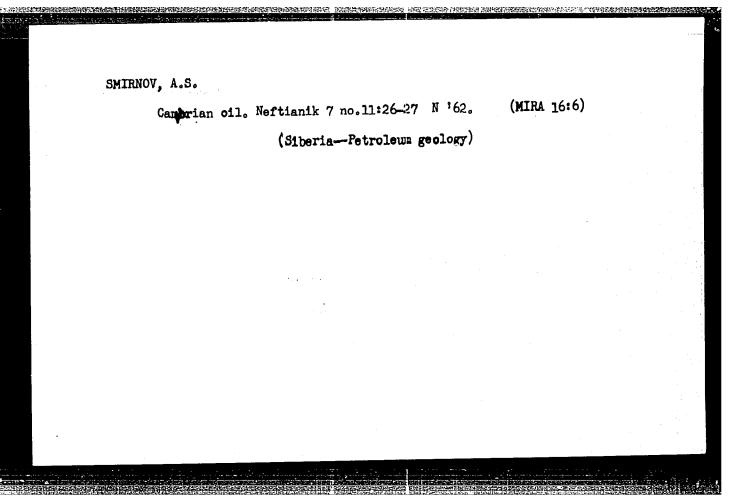
PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 2, 1963, 19-20, abstract 2B138 (Sb. rabot po nekotorym vopr. dozimetrii i radiometrii ionizir. izlucheniy. Vyp. 2, M., Gosatomizdat, 1961, 177-186)

TEXT: It is suggested that a ring inertial precipitator (impactor) should be used to collect the plutonium aerosol, together with a scintillation  $\gamma$  counter. The ring gap is 1.7 mm, and the volume flow rate of air is 550 - 700 l/min. Operation of the impactor is based on the fact that sizes of the natural  $\alpha$ -active aerosols are considerably below those of the industrial plutonium aerosol. Special parallel experiments with the impactor and filtration through  $\alpha$  (FPP) fabric showed that an average of 1%, and not more than

Card ·1/2

3%, of natural radioactive aerosols (decay products of Rn and Tn) is deposited on the backing of the impactor. Deposition efficiency of the plutonium aerosol is 70%. To ensure rapid measurement (30 - 45 min) of low Pu concentrations in the air, with these characteristics of the impactor, the authors suggest the use of a combination of the impactor with the d-radiation energy discrimination method, or with a simple single-channel d-spectrometer. The basic diagram of such combined instrument is given. Abstracter's note: Complete translation.	Study of	the pos	sibili ដូ	,		S/169/ D263/I	/63/000/0 /307	02/029/1	127
Complete translation. 7	is deposition of the plant of t	ted on utonium of low Post the impactor with a	the back aerosolu concer pactor, ctor with a simple	king of 1 is 70% tration the aut the kingle single	the important the the thick the thic	actor. I sure rap e air, w ggest th ion ener l &-spec	epositio id measu ith thes e use of gy discr trometer	n effici rement ( e charac a combi iminatic . The ba	lency (30 - eter- ina- on asic
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SINITSYN, V.A., kand. tekhn. nauk; SMIRNOV, A.S., inzh.

Dip needle for surveying frozen vertical holes in shaft sinking. Shakht. stroi. 7 no.8:11-13 Ag '63.

(MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut.

<u>45613-65</u> EWT(d)/EPA(s)-2/EWT(m)/EW WP(1)/EWA(c) Pf-4 JD/HM CCESSION NR: AP5010978	A(d)/ENP(v)/T/ENP(t)/ENP(k)/ENF(h)/ENP(b) 20 UR/0286/65/000/007/0165/0165
UTHOR: Kholopov, Yu. V.; Smirnov, A.	<b>S.</b>
TTLE: Portable gun for ultrasonic to	ro-side spot welding of metal. Class 49.
OURCE: Byulleten' izobreteniy i tovo	arnykh znakov, no. 7, 1965, 165
COPIC TAGS: ultrasonic welding, spot	
ABSTRACT: An Author Certificate has for two-side spot welding of metals. Operated plane-parallel tongs which he tip of each jaw. The contact points dicular to the plane of the parts to the jaws. Orig. art. has: 1 figure.	the seen issued for a portable ultrasonic welder.  The welder is made in the form of manually ave a metallic contact point fixed at the are coaxial with each other and are perpente welded. A transducer is fitted on one of [MS]
그 이 그 그의 의 교통하다 그는 그 전 하는 이 회사 없었다. 말인	ledovatel'skiy institut elektrosvarochnogo Research Institute of Electric Welding
Equipment)	교사회 전실 이름 하고 있는 장면하는 하고까지 하는 하는 사고를 통해

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Card 2/2				

SMIRNOV, A.S.; MALEVSKIY, A.Yu.; VANYUKOV, A.V.

Converting nickel-bearing copper mattes. TSvet. met. 35 no.1:
(MIRA 16:7)
31-37 Ja '62.
(Copper-Metallurgy) (Nickel--Metallurgy)

SMIRNOV, A.S.; SINEV, L.A.; VANYUKOV, A.V.; POPKOV, A.N.

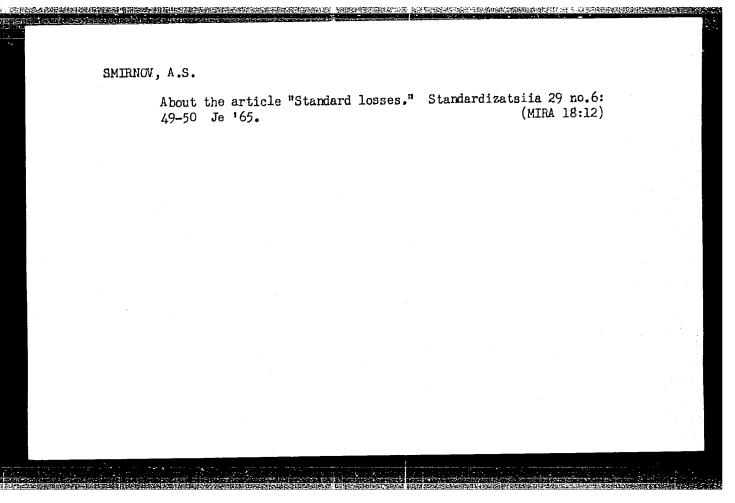
Reducing magnetite in converter slag for the purpose of depleting them of valuable metal. TSvet. met. 36 no.7:25-29 Jl '63. (MIRA 16:8)

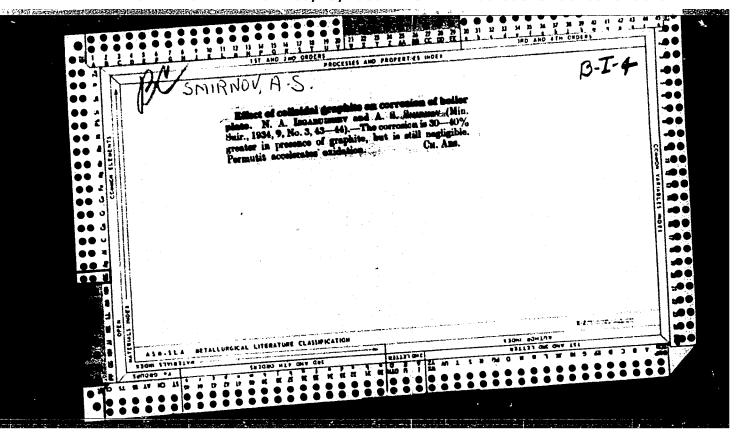
(Slag-Analysis)

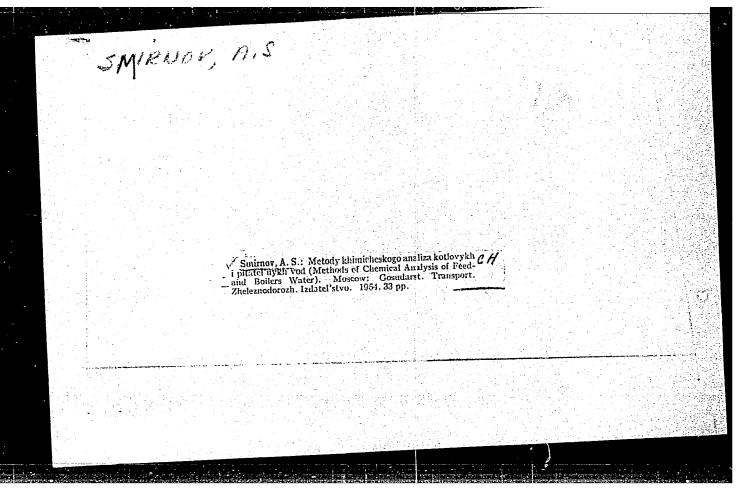
FALEY, Mark Abrahovich; MIRNOV, A.S., nauchn. red.

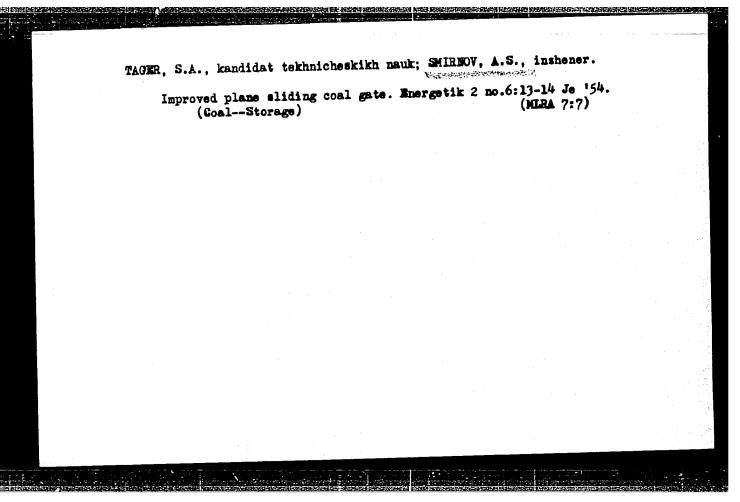
[Deviations in the shape and arrangement of surfaces]

Ctklonentia formy i raspolozhenita poverkhnostei. Moskva, 1zd-vo standartov, 1965. 117 p. (MIRA 18:8)









SMIRNOV, Aleksey Sergeyevich; SALENKO. S.V., inzhener, redaktor;

BOBHOVA, Te.N., tekhnicheskiy redaktor

[Methods of analysing water, boiler scale and slime] Metody
analiza vody, nakipi i shlama. Moskva, Gos.transp.zhel-dor. izd-vo,
(MLRA 10:6)

1957. 165 p.
(Water--Analysis) (Feed water--Analysis)
(Locomotive boilers--Incrustations)

SMIRNOV, A.S., kandidat khimichskikh nauk.

Quality control of cooling water for steam locomotive engines.

Vest. TSNII MPS 16 no. 4:38-41 Je '57. (MIRA 10:8)

(Locomotives)

SMIRNOV, A.S.

104-3-30/45

AUTHOR: Smirnov, A.S., Engineer and Tager, S.A. Candidate of

Technical Sciences.

TITIE: High speed stop and transfer valves for pulverised fuel

pipes. (Bystrodeystvuyushchiy plotnyy klapan-pereklyuchatel

dlya pyleprovodov)

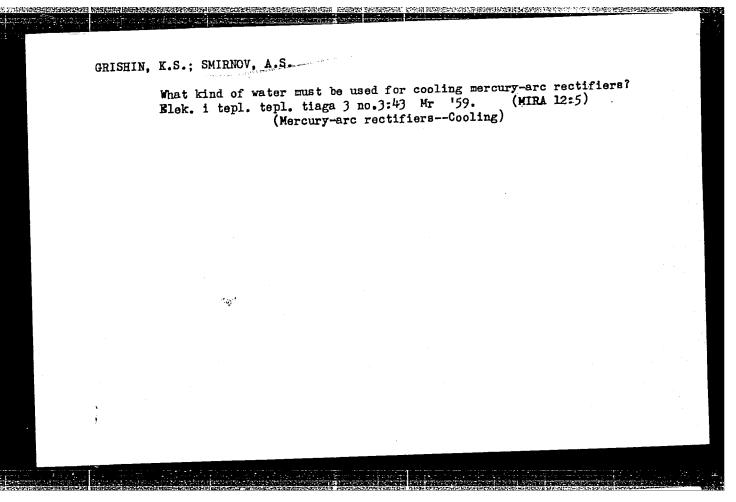
PERIODICAL: "Elektricheskiye Stantsii" (Power Stations), 1957,

Vol. 28, No.3, pp. 79 - 80 (U.S.S.R.)

ABSTRACT: Pulverised fuel fired boilers have two burners each of which can take half the load; both burn continuously. Usually there are two pulverised fuel systems. Normal types of valve cannot be used on the piping of these systems and the article describes the special constructions that are recommended; they are illustrated by sketches. There is I figure..

AVAITABLE: Library of Congress

Card 1/1



#### CIA-RDP86-00513R001651510019-2 "APPROVED FOR RELEASE: 08/25/2000

15.4100, 5.1000

77945 sov/65-60-3-18/19

'AUTHOR:

Smlrnov, A. S.

TITLE:

New Types of Decmulsifiers

PERIODICAL:

Khimiya i tekhnologiya topliv i masel, 1960, Nr 3,

p 72 (USSR)

ABSTRACT:

The pollution of streams and other natural waters by wastes from refineries is due to an inadequate desalting and removal of water from crude oil. The use of a new decmulsifier nonionic surface-active substance OP-10 (ethoxylated alkylphenol), at 80° and 4 atm, decreases the salt content in crude oil to 30-50 mg/ /liter, and moisture content, to 0.1-0.3%. The con-

sumption of deemulsifier per ton of crude oil amounts to 40-50 g as compared with 1.5-2 kg of the conventional type (neutral black contact, NBC). This new deemulsifier increases the efficiency of the desalting unit by 40-50%, and the water coming from this

Card 1/2

New Types of Deemulaifiers

77945 SOV/65-60-3-18/19

unit contains 100-200 mg/liter of petroleum and other suspensions as compared to 1,000-1,200 mg/liter in the case of the conventional deemulsifier. The All-Union Scientific Research Institute of the Petroleum Industry continues its efforts to develop more efficient deemulsifiers. The most promising among them are: ethoxylated coal phenols, alkylphenols, and dibutyl-paracresol.

Card 2/2

GOLUETSOV, V.A.; SMIRNOV, A.S., inzh.

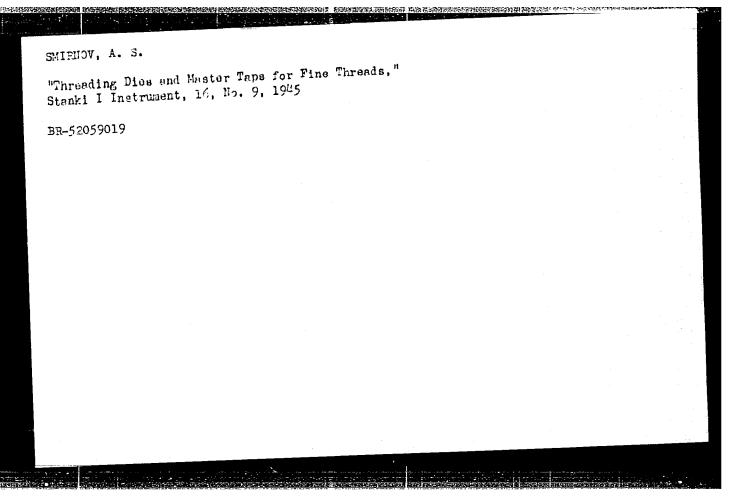
Determining the efficiency of boiler units. Teploenergetika 8 (MIRA 14:10) no.6:93-94 Je '61. (MIRA 14:10)

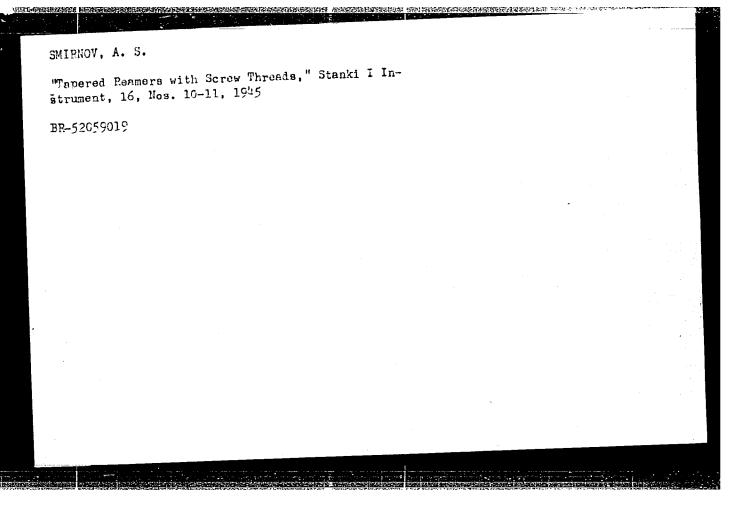
1. Chlen-korrespondent AN SSSR (for Golubtsev). (Boilers)

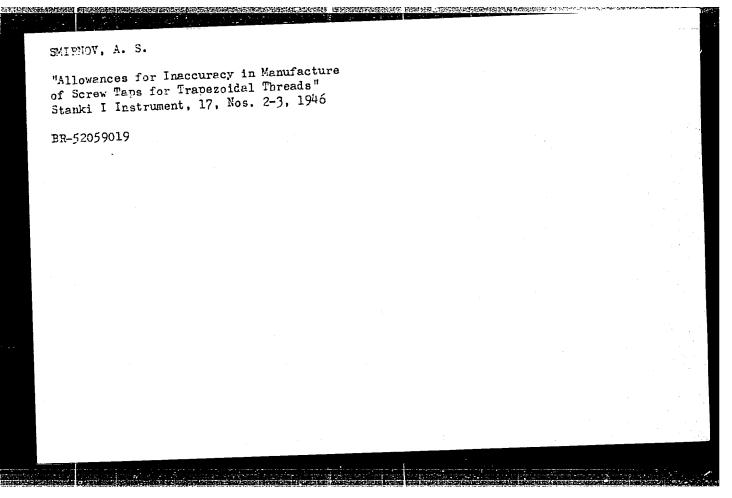
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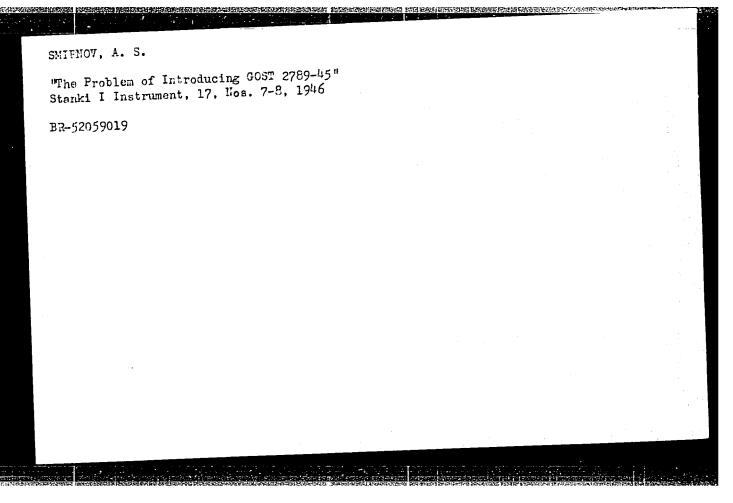
NIKULIN, Anatoliy Sergeyevich; SMIRNOV, Aleksandr Sergeyevich; YUNUSOV, Al'bert Gamzatovich; MASLOV, A.V., prof., red.

[Methodological instructions on organizing and conducting initial field training in surveying] Metodicheskie ukazania po organizatsii i provedeniiu pervoi uchebnoi geodezicheskoi praktiki. Moskva, Nedra, 1965. 115 p. (MIRA 18:11)





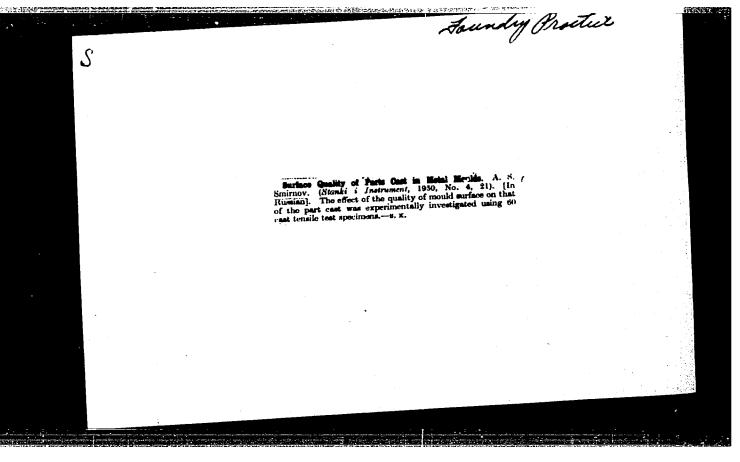




PA 28T96 SMIRROV, A. S. Mar/Apr 1947 USSR/Ships - Equipment and Supplies Instruments - Marine "Standardization of Instruments," A. S. Smirnov, mgr, 1 p "Sudostroyeniye" No 2 In recent years a new bureau has been organized under the jurisdiction of the Ministry of Ship Construction and under the direct control of the Executive Body of the Ship Building Industry. This new bureau is known as the Basic Bureau for the Standardization of Instruments, and was organized to achieve greater standardization of equipment and instruments used aboard ship. 28196 BS

Stirney, A. S. - "Surface finish in parts of devices (with editorial notes),"
Pryborostro enlye, Issue 5, 1245, p. 29-45.

Sc: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 19/9).

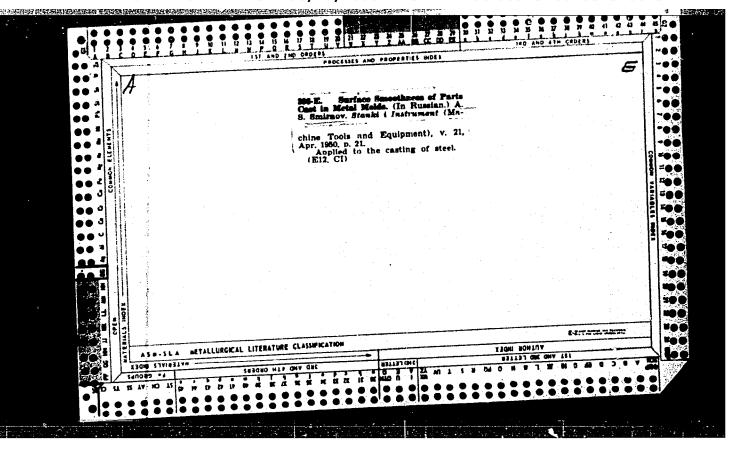


Chistola poverkinostei i posadki. (Vestm. Mach., 1990, 20.5, c. 13-16)

Clearliness of surface and fibs. DLC: Tit, Vh.

So: Mamufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

32(3.1)				,	
	ne design of cast mac	hine parts.			
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Conufacturing and Meet of Congress, 1953.	menical Engineering i	n the Sovi-	t Union, Lib	rary .	
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	roblems concerning the	roblems concerning the design of cast mac  DL  confecturing and Mechanical Engineering i	roblems concerning the design of cast machine parts.  DLC: TMA.V4  Complecturing and Mechanical Engineering in the Sovie	roblems concerning the design of cast machine parts.  DLO: TN4.V4  Canufacturing and Mechanical Engineering in the Soviet Union, Libr	roblems concerning the design of cast machine parts.  DLD: TNA.V4  Canufacturing and Mechanical Engineering in the Soviet Union, Library



SMIRMOV, A. S.

Dopuski dlia pressovykh soedinenii metallicheskikh detalei s nemetallicheskimi. (Vestn. Mash., 1951, no. 6, p. 9-12)

DLC: TN4.V4

Tolerances for pressed joints connecting metallic and nonmetallic machine parts.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SMIRNOV, A. S.

Grinding and Polishing

Feeder for delivering abrasive suspension material to the polishing machine 4-SHPS. Stek. i ker. 9, No. 7, 1952.

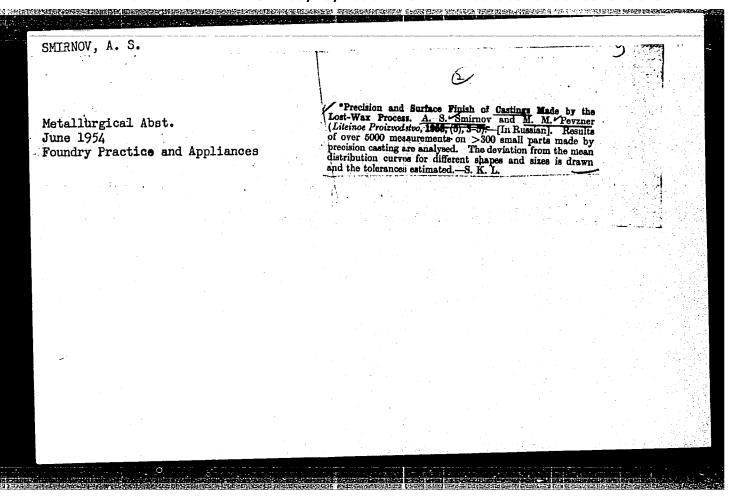
9. Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

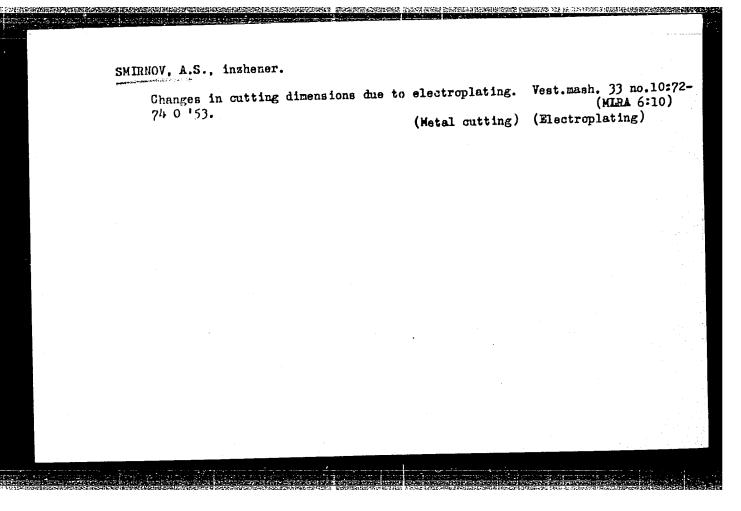
SMIRNOV, A. S.

Machine 'lools - Standards.

Problems of setting norms for instruments, Vest. Mash 32, No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952, UNCLASSIFIED.





SMIRNOV, A.S.; YAKUSHEV, A.D., inzhener.

Surface smoothness modifications in electrodeposition. Standartizatsiia no.3:58-63 My-Je '54. (MLRA 7:6)

1. Nachal'nik instrumental'nogo otdela NII Ministerstva sudostroitel'noy promyshlennosti (for Smirnov).

(Electroplating) (Surfaces (Technology)--Standards)

USSR/Engineering - Thread standards

Card 1/1

: Pub. 128 - 8/38

Authors

Smirnov, A. S.

Title

Contribution to the problem of threaded joints with guaranteed

clearances on the mean diameter

Periodical: Vest. mash. 9, page 36, Sep 1954

Abstract

A review is presented of Yu. L. Frumin's article published in the journal "Vest. mash. No. 3, 1953", concerning problems of standard-

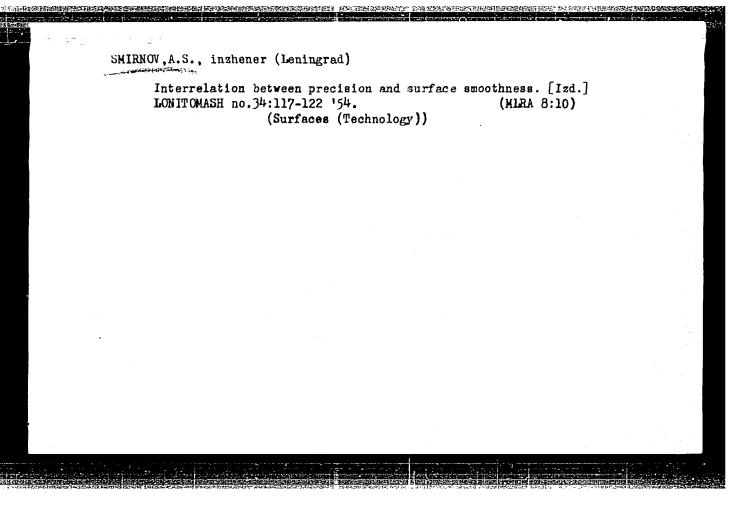
izing threaded joints to secure their interchangeability.

Institution:

Submitted

Constructive shaping of part elements from plastic material.
Vest.mash.34 no.1:39-42 Ja '54. (MIRA 7:2)

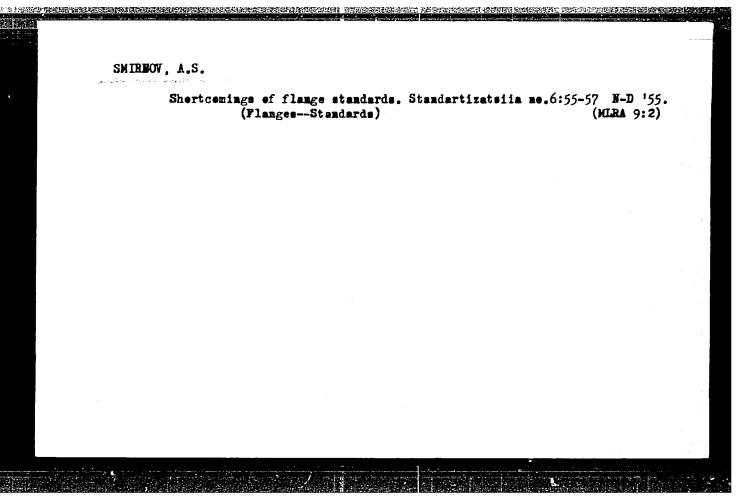
(Mechanical engineering)

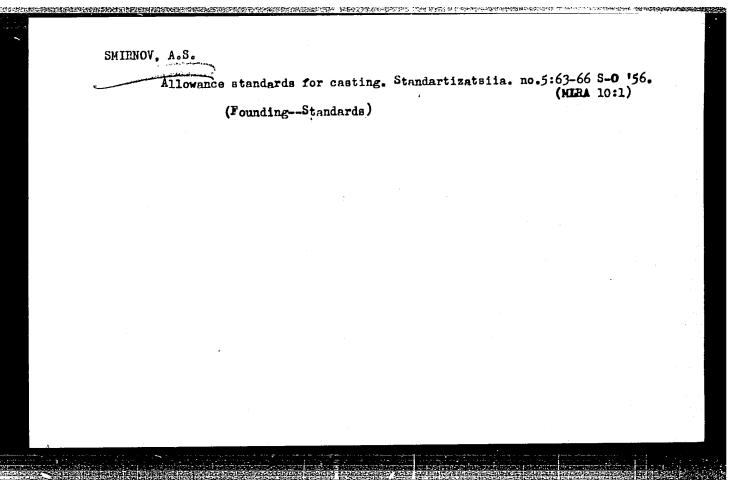


SMIRNOV, Aleksey Sergeyevich; TSAL, K.I., redaktor; FRUMKIN, P.S., tekhai-cheskly redakter.

[Standardization of telerances in the instrument industry] Normalizateiia depusitev v priberestrocali. Leningrad, Ges. solumnee industry sudcetreit, premyshl., 1955.111p.

(Instrument industry) (Telerance (Engineering))





AUTHOR: Smirnov, A.S. 28-6-21/40

TITLE: Angle Tolerances (Dopuski na uglovyye razmery)

PERIODICAL: Standartizatsiya, 1957, # 6, pp 59-62 (USSR)

ABSTRACT: The author points out that as yet there is no " FOCT in

existence that would regulate the standard series of angles and tolerances for angles of machine part surfaces for all possible kinds of connections including angles between sur-

faces.

Information on the present USSR practice of selecting tolerances is given and the existing branch standards ("normali") are mentioned, as are also the standards for tapers and taper gages in the normali of the Bureau of Inter-

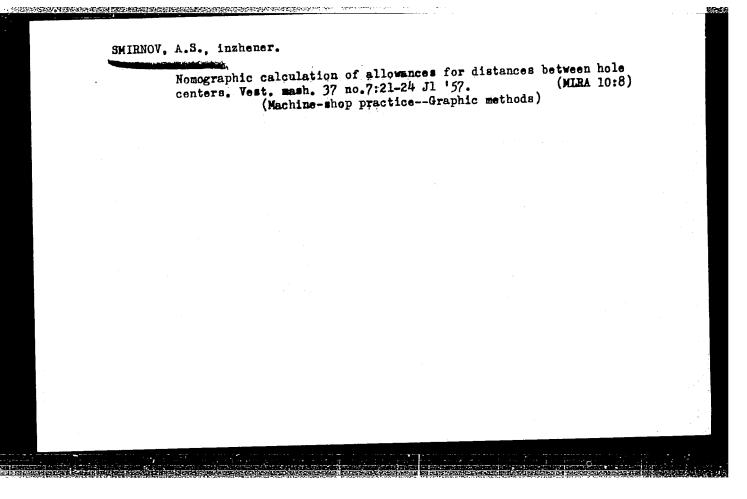
changeability.

A new general angle tolerance system developed in the instrument industry is described and shown by a chart. This system subdivides tolerances into 10 accuracy classes.

There are 3 charts and 3 diagrams.

AVAILABLE: Library of Congress

Card 1/1 1. Industry-USSR 2. Angles-Tolerance-Standards



SMIRNOV, Aleksey Sergeyevich; RADUGIN, Aleksey Aleksandrovich; ZOTKIN, A.P., otv.red.; LEVOCHKINA, L.I., tekhn.red.

[Efficient designing of molds and dies] Opyt skorostnogo proektirovaniia pressform i shtampov. Leningrad, Gos.soiuznoe proektirovanii pressform i shtampov. Leningrad, Gos.soiuznoe pressform i shtamp

PHASE I BOOK EXPLOITATION

1093

Dopuski i posadki v priborostroyenii (Tolerance and Fits in Instrument Making) Leningrad, Sudpromgiz, 1958. 172 p. 6,500 Smirnov, Aleksey Sergeyevich

Scientific Ed.: Myagkov, V.D.; Ed.: Lapin, V.I.; Tech. Eds.:
Kontorovich, A.I. and Frumkin, P.S.

This book is intended for designers and technicians working in the instrument-making industry and may also be used by students of miges and talkhallama anadallating in this plant working in the instrument-making inquestry and may also be used by students of vuzes and tekhnikums specializing in this field. PURPOSE:

COVERAGE: On the basis of experience of departmental and interdepartmental standardization in the field of interchangeability departmental standardization in the litera of the author gives recommendations on of parts and surface finish the author gives recommendations on begin regularized of dimensional contract and colored order. basic requirements of dimensioning parts and selecting fits and tolerances pasic requirements of dimensioning parts and selecting little and tolerances. Special tolerances not included in the All-Union tolerances. Special tolerances not included in dimensioning and system are developed and data on the effect of dimensioning and

card 1/4

**EXECUTE:** 08/25/2000 CIA-RDP86-00513R001651510019-2"

GO/mfd 1-28-59

1093

PHASE I BOOK EXPLOITATION

# Smirnov, Aleksey Sergeyevich

- Dopuski i posadki v priborostrovenii (Tolerance and Fits in Instrument Making) Leningrad, Sudpromgiz, 1958. 172 p. 6,500
- Scientific Ed.: Myagkov, V.D.; Ed.: Lapin, V.I.; Tech. Eds.: Kontorovich, A.I. and Frumkin, P.S.
- This book is intended for designers and technicians working in the instrument-making industry and may also be used by students of vuzes and tekhnikums specializing in this field. PURPOSE:
- COVERAGE: On the basis of experience of departmental and interdepartmental standardization in the field of interchangeability of parts and surface finish the author gives recommendations on basic requirements of dimensioning parts and selecting fits and tolerances. Special tolerances not included in the All-Union System are developed and data on the effect of dimensioning and

Card 1/4

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651510019-2"

Tolerance and Fits (Cont.) 1093  tolerances on engineering qualities of parts are given. No personalities are mentioned. There are 15 Soviet references.			
TABLE OF CONTENTS:	4		
Foreword  Ch. I. Basic Requirements for the Placement of Dimensions on Province of dimensioning.			
1. General premises. 2. Examples of learning of the control of the			
tolerances and fits for ball bearings.  fits for ball bearings.  Ch. III. Tolerances on Center Distances Between Holes in Assembly Parts  sembly Parts  1. Calculation of equal tolerances. 2. System of toler-	<b>†</b> †		
Card 2/4			

Tolerance and Fits (Cont.) 1093  fits. 2. Roughness of surfaces of parts to be electroplated. 3. Surface roughness of cast parts. 4. Surface plated. 3. Surface roughness of surface roughness of tapered roughness of plastic parts. 5. Surface roughness of tapered teeth working profiles. 6. Surface roughness of tapered teeth working profiles. 6. Surface roughness standards. connections. 7. Surface roughness standards.  Ch. VI. Effect of Standardization of Tolerances and Grades of Surface Roughness on Design and Manufacturing Considerations of Parts.  1. Design and manufacturing considerations for machined to manufacturing considerations. 2. Design and manufacturing considerations parts. 2. Design and manufacturing considerations of parts. 3. Design and manufacturing considerations of parts. 4. Establishing of proper levels of tions for castings. 4. Establishing of proper levels of surface qualities of parts. 158  Bibliography  Appendix: Chordal Tolerances  AVAILABLE: Library of Congress  AVAILABLE: Library of Congress	alas artinos esti la fila fila filos en filosofia artinos en la filosofia de filosofia de filosofia de filosof Estados	
Appendix: Chordal Tolerand  AVAILABLE: Library of Congress  1-28-59	roughness of plassifies. teeth working profiles. connections. 7. Surface connections. 7. Surface connections of Standardiza Surface Roughness on tions of Parts 1. Design and manufacturin parts. 2. Design and press-formed parts. 3 tions for castings. tions for castings. surface qualities of parts	e roughness standards.  e roughness standards.  e roughness standards.  tion of Tolerances and Grades of  tion of Tolerances and Grades of  Design and Manufacturing Considera  142
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SMIRNOY A.S.

25(6) P

PHASE I BOOK EXPLOITATION

sov/1328

- Mauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Leningradskoye oblastnoye pravleniye
- Vzalmozamenyayemost', tochnost' i metody izmereniya v mashinostroyenii (Interchangeability, Accuracy and Measuring Methods in Machine Building) Moscow, Mashgiz, 1958. 251 p. (Series: Its: Sbornik, kn. 47) 6,000 copies printed.
- Eds.: Kutay, A.K., Candidate of Technical Sciences, Docent; Puzanova, V.P., Candidate of Technical Sciences; Kempinskiy, M.M., Engineer; Rubinov, A.D., Candidate of Technical Sciences; Turetskiy, I. Yu., Candidate of Technical Sciences; and Abadzhi, K.I., Engineer; Ed. of Publishing House: Simonovskiy, N.Z.; Tech. Ed.: Sokolova, L.V.; Managing Ed. for Literature on Machine Building Technology (Leningrad Division, Mashgiz); Naumov, Ye. P., Engineer.
- PURPOSE: This book is intended for plant engineering, scientific and technical personnel and production innovators. It may also be Card 1/9

## APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651510019-2"

Interchangeability, Accuracy and Measuring Methods (Cont.) SOV/1328, useful to students of higher technical institutes.

COVERAGE: This collection of articles deals with the topics discussed at the Third Leningrad Scientific and Engineering Conference on Interchangeability, Accuracy, and Inspection Methods in Machine-building and Instrument-making, held March 18-22, 1957. The book consists of three parts: 1) interchangeability in machine-building and instrument-making 2) manufacturing accuracy and quality control 3) engineering measurements. The first part deals with basic principles of interchangeability, establishment of the system and calculation of tolerances. The second part deals with calculation and analysis of the accuracy of manufacturing processes, machine subassemblies and quality control. The third part consists of articles dealing with improvements in measuring instruments and methods. Special emphasis is placed on the measurement of large parts. A new method of calculating accuracies of measuring instruments is discussed in the article by M.M. Kempinskiy.

Card 2/9

SMKNO, 115

AUTHOR:

Smirnov, A.S., Engineer

28-58-2-30/41

TITLE:

Normalization of Diameters and Length by Preference Numbers (Normalizatsiya diametrov i dlin po predpochtitel'nym chislam)

PERIODICAL:

Standartizatsiya, 1958, Nr 2, pp 73-75 (USSR)

ABSTRACT:

The article is concerned with standard lengths and diameters accepted in the machine building industry. The author points out that the "normal" standards issued in past years do not contain indications as to which of the standard dimension series established by the "GOST 6536-53" ("Normal Diameters and Lengths in Machine Building") are to be preferably used in different applications. The designers prefer to use diameters of the preference number series "Ra5" and "Ra10" (although all other series can be used); stocks of gages as well as stocks of tools and raw materials at plants, in practice are not at all planned in accordance with scientific data, and there are surpluses of some stocks and deficiencies of others. The author emphasizes the importance of strict compliance with the preference number series system, without which unification and normalization in the machine industry will be very difficult to achieve. There are 3 tables.

AVAILABLE: Card 1/1

Library of Congress

1. Preference numbers-Applications 2. Industrial standards-USSR

3. Standardization-USSR

14(7) AUTHOR:

Smirnov, A. S., Engineer

TITLE:

Manufacturing of Glands and Their Tolerances (Proizvodstvo

sal'nikov i dopuski na nikh)

PERIODICAL:

Priborostroyeniye, 1959, Nr 2, pp 19-20 (USSR)

ABSTRACT:

According to the standard specification GOST-4852-55 the mounting holes of the glands must be manufactured with a certain precision. In order to make the mounting holes fit precisely into the counterholes, drilling the holes requires a certain

507/119-59-2-7/17

precision.

**会对政府保持是有效的特别,所以**由自己的任务。

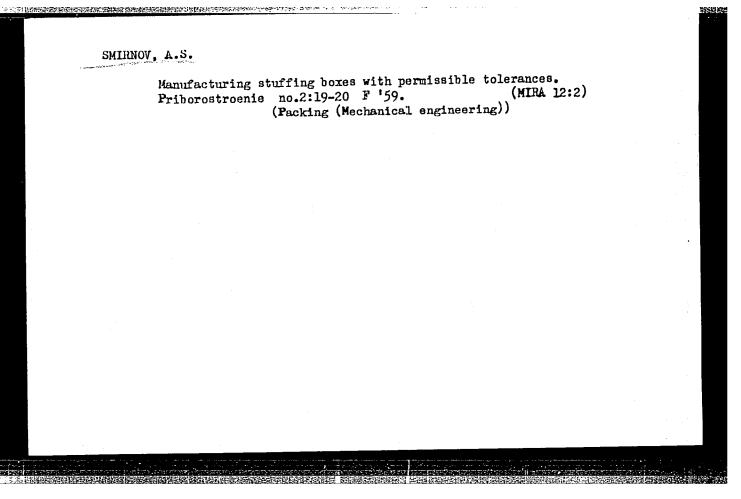
It is shown that it is easier for manufacturing to give the mounting holes of the glands more tolerance so that no rework on the holes in the counterpart will be necessary. The tolerable

deviations in manufacturing glands are given in a table for

different diameters of the mounting holes.

There are 3 figures, 3 tables, and 1 Soviet reference.

Card 1/1



#### CIA-RDP86-00513R001651510019-2 "APPROVED FOR RELEASE: 08/25/2000

28(3; 25(2)

SOV/28-59-4-5/19

AUTHOR:

Smirnov, A.S., Engineer

TITLE:

Problems of the Normalization Control in Machine Building and Instrument Building (Voprosy normalizatsionnogo kontrolya v machinostroyenii i pri-

borostroyenii)

PERIODICAL:

Standartizatsiya, 1959, Nr 4, pp 16-18 (USSR)

ABSTRACT:

The author discusses the purposes and the organization of normalization control as it is practiced by Normalization and Standardization Departments of the plants and as it should be. Some staff members of the departments consider it their major duty to watch all details of the drawings and symbols and inscriptions. Frequently normalization control constitutes an obstacle to the development of new designs. The author discusses the question: At what

Card 1/2

stage of development is standardization rational?

KALANDADZE, Georgiy Viktorovich. Prinimali uchastiye: SMIRMOV, A.S.;

BARSUKOV, P.V., SMIRMOV, A.V., nauchnyy red.; BARSUKOV, P.V.,

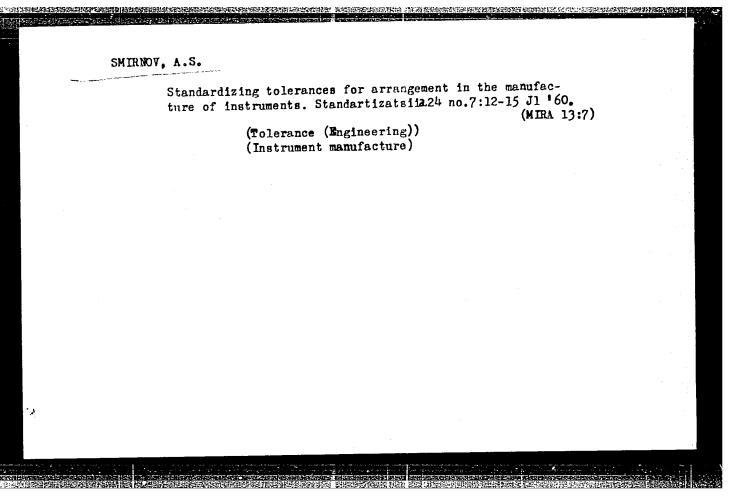
nauchnyy red.; SOKOLOVA, M.A., red.; PERSON, M.H., tekhn.red.

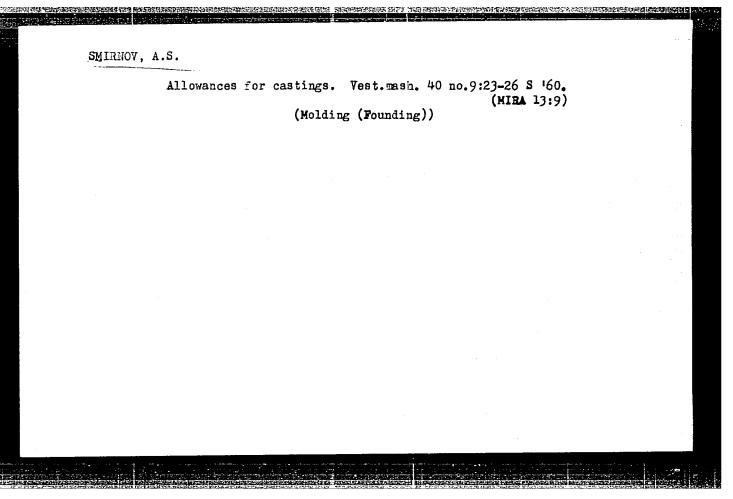
[Course in mechanical drawing] Kurs chercheniis. Moskva,

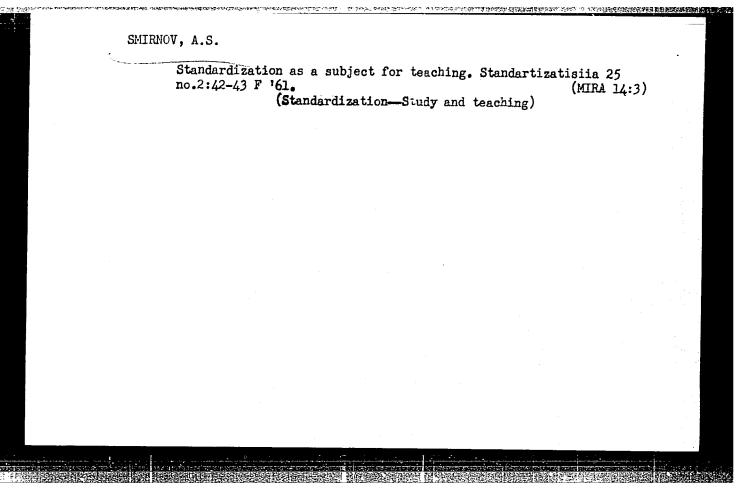
Vses.uchebno-pedagog.izd-vo Proftekhizdat, 1960. 410 p.

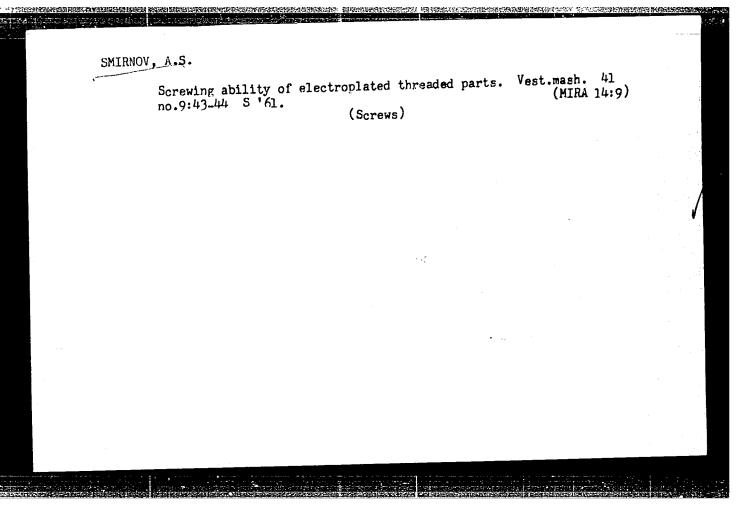
(Mechanical drawing)

(Mechanical drawing)









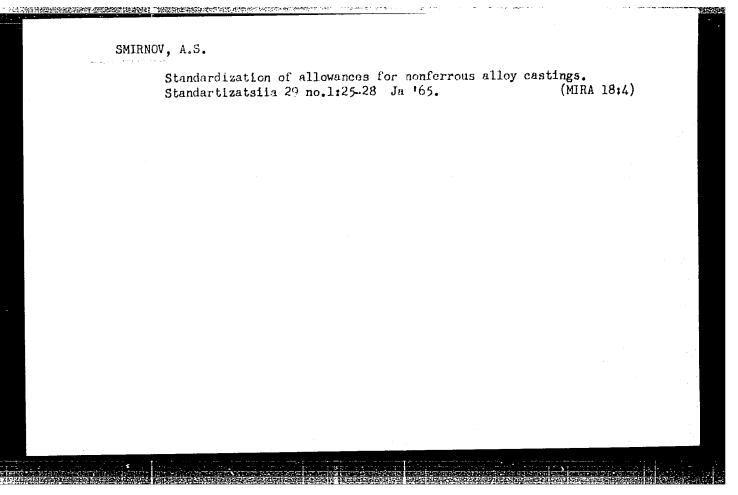
SMIRNOV, Aleksey Sergeyevich; NYACKOV, V.D., nauchnyy red.; NIKITINA,

K.I., red.; KRYAKOVA, D.M., tekhn. red.

[Fundamentals of standardization in the instrument industry]
Osnovy normalizatsii v priborostroenii. Leningrad, Sudpromgiz, 1962. 77 p.

(MIRA 15:8)

(Instrument industry) (Standardization)



ACC NR: AP6007716	SOURCE CODI	/EWP(k)/EWP(h)/EWP(1) E: UR/0413/66/000/003	/0118/0118
AUTHOR: Zaytsev	, M. P.; Kholopov, Yu.	V.; Smirnov, A. S.	36
ORG: none		and the second s	B
TITLE: Ultrasoni	ic seam-welding unit	Class 49, No. 178656	
	eniva, promyshlennyve		Naki,
TOPIC TAGS: weldwelder	iing, ultrasonic weldin	g, seam welding, ultr	asonic
vice. To ensure welding zone, the	chor Certificate has be oped with a magnetostri continuous feeding of magnetostrictic conve unted on top of it (see	ctic converter and a cultrasonic vibrations	lisk de-
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	IDC - 601 701 16 000		
Card 1/2	UDC: 621.791.16.002.	<b>)</b>	

L 24537-66 EWT(d)/EWT(m)/EWP(v	)/T/EWP(t)/EWP(k)/EWP(h)/EWP(1) ID/HM SOURCE CODE: UR/0413/66/000/003/0118/0119
INVENTOR: Kholopov, Yu.	<b>46</b>
ORG: none TITLE: Device for ultrasc	onic seam welding. Class 49, No. 178657
SOURCE: Izobreteniya, pr	comyshiennyye obrazozy,
welder, ultrasonic seem	
seam welder with an action speed up the welding protube for applying pressu	tificate has been issued for an ultrasonic ve resonant tube as a working element. To cess, the reflector is a passive resonant re to the parts to be welded.
SUB CODE: 13/	SUBM DATE: 24Feb64/
	2
Card 1/1 UVP	UDC: 621.791.16.002.5

ACC NR: AP7001456

(A)

SOURCE CODE: UR/0413/66/000/021/0201/0201

INVENTORS: Smurov, A. M.; Smirnov, A. S.

ORG: none

TITLE: A stamp for punching forgings. Class 49, No. 188273 Zannounced by Scientific Research Institute of the Automotive Industry Engineering (Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy promyshlennosti)

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 201

TOPIC TAGS: metal forging, metal forming, metal stamping, metallurgic machinery, metallurgic process, metalworking

ABSTRACT: This Author Certificate presents a stamp for punching forgings. The die of the stamp contains a compensating recess covered by a back pressure assembly (see Fig. 1). To provide for a free expulsion of the excess metal into the compensating recess and to diminish the deforming power, the back pressure assembly is made in the form of a cylinder with a piston, mounted on the lower plate of the stamp. The opening under the piston is accessible to the external atmosphere through a spring-loaded valve which interacts with the piston under the action of the metal being squeezed into the compensating recess.

Card 1/2

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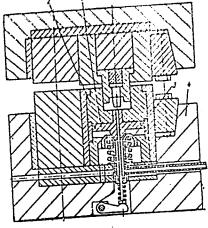
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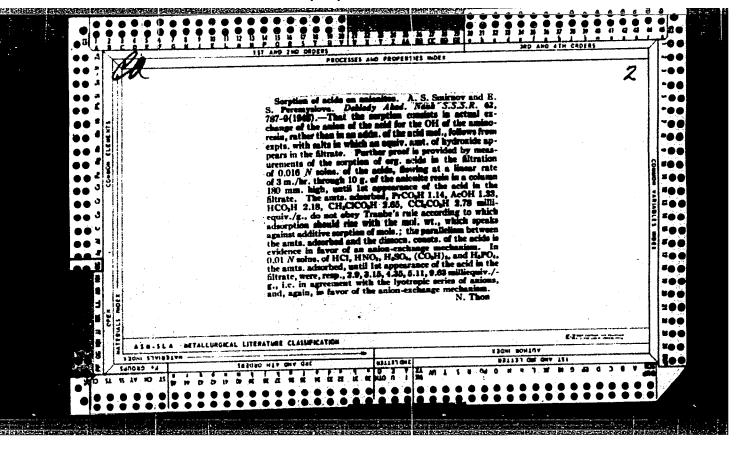
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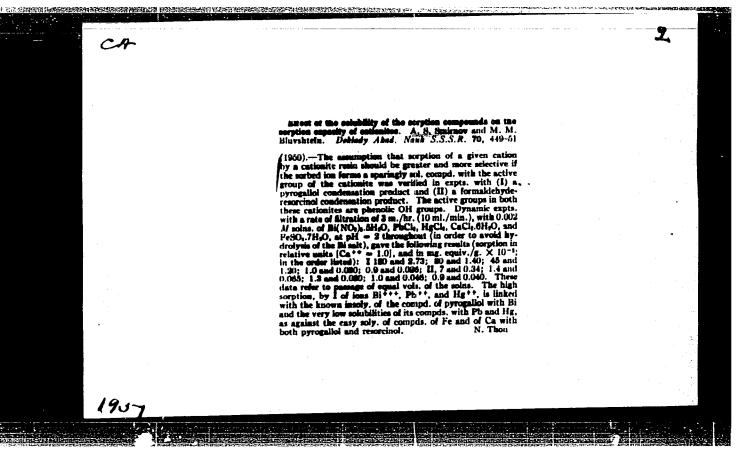
Fig. 1. 1 - piston; 2 - cylinder of the piston; 3 - spring-loaded valve; 4 - lower plate of the stamp

Orig. art. has: 1 figure.

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